JASIS
JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE

Subject Index to Volume 42

Abstracts and Abstracting
graphic display of larger sentence dependency structures, 323-31
medical English abstracts: how well are they structured? (Brief Communication), 528-31

Academic Integrated Information Centers. ***See*** **Integrated Information Centers**

Access To Information. ***See*** **Information Access**

Accounting Literature
deriving disciplinary structures: some new methods, models, and an illustration with accounting, 27-35

Adaptive Linear Model
evaluation of an adaptive linear model, 723-30

Advisory Group for Aeronautical Research and Development (AGARD-NATO)
historical note: out of the cloudy crystal ball, 747-53

Algorithms
algorithm for automatic construction of query formulations in Boolean form, 16-26
control and feedback in a documentary information retrieval system, 623-34
evaluation of an adaptive linear model, 723-30
how effective is suffixing?, 7-15
user-based document clustering by redescribing subject descriptions with a genetic algorithm, 311-22

Artificial Intelligence. ***See also*** **Expert Systems**
epistemological grounds for cybernetic models, 372-77
expertise, task complexity, and artificial intelligence: a conceptual framework, 635-43
the role of artificial intelligence in information retrieval, 558-65

Arts and Humanities Citation Index
quality judgments of journals as indicators of research performance in the humanities and the social and behavioral sciences, 332-40

Atkinson's Measure
rational normalization of concentration measures, 715-22

Authorship
applied bibliometrics: using citation analysis in the journal submission process (Brief Communication), 308-10
a further exploration of title size and author number (Brief Communication), 384-85
a probabilistic model for the distribution of authorships, 279-89

Automatic Abstracting. ***See*** **Abstracts and Abstracting**

Automatic Query Formulation. ***See*** **Query Formulation**

Automation. ***See*** **Library Automation; Office Automation Systems**

Behavioral Sciences
quality judgments of journals as indicators of research performance in the humanities and the social and behavioral sciences, 332-40

Bibliometrics. ***See*** **Citation Analysis**

Binary Vector Model
a phrase-based matching function, 36-48

Biography
in memoriam: Lea M. Bohnert 1919-1990, 467-68
in memoriam: Stephen E. Furth, 1909-1991, 702

Bivariate Model
a bivariate model to predict library circulation, 546-53

Bohnert, L. M.
in memoriam: Lea M. Bohnert 1919-1990, 467-68

Book Indexing
back of book indexes and the characteristics of author and nonauthor indexing: report of an exploratory study, 341-50

Book Reviews
Indexing: the State or Our Knowledge and the State of Our Ignorance: Proceedings of the 20th Annual Meeting of the American Society of Indexers, 757
Information Quality: Definitions and Dimensions Proceedings of a NORDINFO Seminar, 463
Introduction to Indexing and Abstracting, 532-37
Language Distribution in Databases: an Analysis and Evaluation, 537-38
The Role of the Academic Reference Librarian, 112
Translating an International Education to a National Environment, 538-39

Boolean Logic
an investigation of the optimization of search logic for the MEDLINE database, 267-78

Bradford, S.
information retrieval of more than text, 586-88

Briet, S.
information retrieval of more than text, 586-88

Cataloging
historical note: out of the cloudy crystal ball, 747-53
knowledge representation of the visual image of a title page, 99-109
system design and cataloging meet the user, 78-98

Catalogs, Public. ***See*** **Online Public Access Catalogs**

Categorization
conceptual organization and retrieval of text by historians: the role of memory and metaphor, 657-68

CCML
the Medline/full-text research project, 297-307

CD-ROM Databases
economic constraints in hypertext, 178-84

Character Data Types
formatted and unformatted character data types (Brief Communication), 110-11

Circulation
a bivariate model to predict library circulation, 546-53

Citation Analysis
applied bibliometrics: using citation analysis in the journal submission process (Brief Communication), 308-10
a combined loglinear/MDS model for mapping journals by citation analysis, 405-13
deriving disciplinary structures: some new methods, models, and an illustration with accounting, 27-35
frequency and functional use of cited documents in information science, 397-404
mapping economics through the journal literature: an experiment in journal cocitation analysis, 290-96
mapping of science by combined co-citation and word analysis. I. structural aspects, 233-51
mapping of science by combined co-citation and word analysis. II. dynamical aspects, 252-66
quality judgments of journals as indicators of research performance in the humanities and the social and behavioral sciences, 332-40
quantitative and qualitative assessments of the impact of linguistic theory on information science, 64-71

JASIS
JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE

Subject Index to Volume 42

Abstracts and Abstracting
graphic display of larger sentence dependency structures, 323-31
medical English abstracts: how well are they structured? (Brief Communication), 528-31

Academic Integrated Information Centers. ***See*** **Integrated Information Centers**

Access To Information. ***See*** **Information Access**

Accounting Literature
deriving disciplinary structures: some new methods, models, and an illustration with accounting, 27-35

Adaptive Linear Model
evaluation of an adaptive linear model, 723-30

Advisory Group for Aeronautical Research and Development (AGARD-NATO)
historical note: out of the cloudy crystal ball, 747-53

Algorithms
algorithm for automatic construction of query formulations in Boolean form, 16-26
control and feedback in a documentary information retrieval system, 623-34
evaluation of an adaptive linear model, 723-30
how effective is suffixing?, 7-15
user-based document clustering by redescribing subject descriptions with a genetic algorithm, 311-22

Artificial Intelligence. ***See also*** **Expert Systems**
epistemological grounds for cybernetic models, 372-77
expertise, task complexity, and artificial intelligence: a conceptual framework, 635-43
the role of artificial intelligence in information retrieval, 558-65

Arts and Humanities Citation Index
quality judgments of journals as indicators of research performance in the humanities and the social and behavioral sciences, 332-40

Atkinson's Measure
rational normalization of concentration measures, 715-22

Authorship
applied bibliometrics: using citation analysis in the journal submission process (Brief Communication), 308-10
a further exploration of title size and author number (Brief Communication), 384-85
a probabilistic model for the distribution of authorships, 279-89

Automatic Abstracting. ***See*** **Abstracts and Abstracting**

Automatic Query Formulation. ***See*** **Query Formulation**

Automation. ***See*** **Library Automation; Office Automation Systems**

Behavioral Sciences
quality judgments of journals as indicators of research performance in the humanities and the social and behavioral sciences, 332-40

Bibliometrics. ***See*** **Citation Analysis**

Binary Vector Model
a phrase-based matching function, 36-48

Biography
in memoriam: Lea M. Bohnert 1919-1990, 467-68
in memoriam: Stephen E. Furth, 1909-1991, 702

Bivariate Model
a bivariate model to predict library circulation, 546-53

Bohnert, L. M.
in memoriam: Lea M. Bohnert 1919-1990, 467-68

Book Indexing
back of book indexes and the characteristics of author and nonauthor indexing: report of an exploratory study, 341-50

Book Reviews
Indexing: the State or Our Knowledge and the State of Our Ignorance: Proceedings of the 20th Annual Meeting of the American Society of Indexers, 757
Information Quality: Definitions and Dimensions Proceedings of a NORDINFO Seminar, 463
Introduction to Indexing and Abstracting, 532-37
Language Distribution in Databases: an Analysis and Evaluation, 537-38
The Role of the Academic Reference Librarian, 112
Translating an International Education to a National Environment, 538-39

Boolean Logic
an investigation of the optimization of search logic for the MEDLINE database, 267-78

Bradford, S.
information retrieval of more than text, 586-88

Briet, S.
information retrieval of more than text, 586-88

Cataloging
historical note: out of the cloudy crystal ball, 747-53
knowledge representation of the visual image of a title page, 99-109
system design and cataloging meet the user, 78-98

Catalogs, Public. ***See*** **Online Public Access Catalogs**

Categorization
conceptual organization and retrieval of text by historians: the role of memory and metaphor, 657-68

CCML
the Medline/full-text research project, 297-307

CD-ROM Databases
economic constraints in hypertext, 178-84

Character Data Types
formatted and unformatted character data types (Brief Communication), 110-11

Circulation
a bivariate model to predict library circulation, 546-53

Citation Analysis
applied bibliometrics: using citation analysis in the journal submission process (Brief Communication), 308-10
a combined loglinear/MDS model for mapping journals by citation analysis, 405-13
deriving disciplinary structures: some new methods, models, and an illustration with accounting, 27-35
frequency and functional use of cited documents in information science, 397-404
mapping economics through the journal literature: an experiment in journal cocitation analysis, 290-96
mapping of science by combined co-citation and word analysis. I. structural aspects, 233-51
mapping of science by combined co-citation and word analysis. II. dynamical aspects, 252-66
quality judgments of journals as indicators of research performance in the humanities and the social and behavioral sciences, 332-40
quantitative and qualitative assessments of the impact of linguistic theory on information science, 64-71

Citation Indexing. *See also* ISI
subject and citation indexing. part I: the clustering structure of composite representations in the cystic fibrosis document collection, 669-75
subject and citation indexing. part II: the optimal cluster-based retrieval performance of composite representation, 676-84

Classification
extended subject access to hypertext online documentation. parts I and II: the search-support and maintenance problems, 414-26
indexing for invention, 173-77

Clustering. *See also* Citation Analysis
subject and citation indexing. part I: the clustering structure of composite representations in the cystic fibrosis document collection, 669-75
subject and citation indexing. part II: the optimal cluster-based retrieval performance of composite representation, 676-84
user-based document clustering by redescribing subject descriptions with a genetic algorithm, 311-22

Co-Citation Analysis. *See* Citation Analysis

Coefficient of Variation
rational normalization of concentration measures, 715-22

Collaboration in Research
a probabilistic model for the distribution of authorships, 279-89

Composite Representation
subject and citation indexing. part I: the clustering structure of composite representations in the cystic fibrosis document collection, 669-75
subject and citation indexing. part II: the optimal cluster-based retrieval performance of composite representation, 676-84

Computer Files
conceptual organization and retrieval of text by historians: the role of memory and metaphor, 657-68

Computer-Human Interface. *See* Human-Computer Interface

Computer Users
failure time analysis of office system use, 644-56
information technologies and social equity: confronting the revolution, 216-28
modeling the intermittent user of word processing technology, 185-96
a user's applications of imaging techniques: the University of Maryland Historic Textile Database, 597-99

Concentration Measures
rational normalization of concentration measures, 715-22
transfer principles and a classification of concentration measures, 479-89

Content Analysis. *See also* Journal Analysis
deriving disciplinary structures: some new methods, models, and an illustration with accounting, 27-35
mapping of science by combined co-citation and word analysis. I. structural aspects, 233-51
mapping of science by combined co-citation and word analysis. II. dynamical aspects, 252-66

Controlled Vocabulary
searchers' selection of search keys: II. controlled vocabulary or free-text searching, 501-14

Copyright
legal issues for an integrated information center, 132-36

Costs and Cost Analysis
economic constraints in hypertext, 178-84

Counseling Literature
increasing field complexity revealed through article title analyses, 731-34

Currency of Online Databases
the Medline/full-text research project, 297-307

Cybernetics
epistemological grounds for cybernetic models, 372-77

Cyberspace
virtual reality: advanced imaging special effects let you roam in cyberspace, 609-17
whither cyberspace?, 618-20

Cystic Fibrosis (CF) Document Collection
subject and citation indexing. part I: the clustering structure of composite representations in the cystic fibrosis document collection, 669-75
subject and citation indexing. part II: the optimal cluster-based retrieval performance of composite representation, 676-84

Data Compression
data compression using word encoding with Huffman code, 685-98

Data Types
formatted and unformatted character data types (Brief Communication), 110-11

Database Management Systems. *See also* Deductive Databases; Relational Databases
formatted and unformatted character data types (Brief Communication), 110-11
a user's applications of imaging techniques: the University of Maryland Historic Textile Database, 597-99

Davis, W.
information retrieval of more than text, 586-88

dBASE III Plus
a user's applications of imaging techniques: the University of Maryland Historic Textile Database, 597-99

Decentralized Information Centers
department level information resource management: a theoretical argument for a decentralized approach, 124-27

Deductive Databases
Digress: a deductive interface to a relational database, 49-63

Departmental Information Centers
department level information resource management: a theoretical argument for a decentralized approach, 124-27

Descriptors. *See* Index Terms

DFT Online Documentation System
extended subject access to hypertext online documentation. parts I and II: the search-support and maintenance problems, 414-26
extended subject access to hypertext online documentation. part III: the document-boundaries problem, 427-37

Dice Coefficient
a phrase-based matching function, 36-48

DIGRESS
Digress: a deductive interface to a relational database, 49-63

Disciplinary Structures
deriving disciplinary structures: some new methods, models, and an illustration with accounting, 27-35
increasing field complexity revealed through article title analyses, 731-34
mapping economics through the journal literature: an experiment in journal cocitation analysis, 290-96
mapping of science by combined co-citation and word analysis. I. structural aspects, 233-51
mapping of science by combined co-citation and word analysis. II. dynamical aspects, 252-66

DOCUMENT, FIND, THESEUS Online Documentation System. *See* DFT Online Documentation System

Document Retrieval. *See* Information Retrieval

Duplicate Records in Databases
indexing consistency in Information Science Abstracts, 1-6
letter to the editor, 759

Economics Literature
applied bibliometrics: using citation analysis in the journal submission process (Brief Communication), 308-10
mapping economics through the journal literature: an experiment in journal cocitation analysis, 290-96

Electronic Imaging. *See* Images and Imaging

End-User Searchers
algorithm for automatic construction of query formulations in Boolean form, 16-26

End-User Searchers *(Cont')*
expertise, task complexity, and artificial intelligence: a conceptual framework, 635-43
graphical representations of electronic search patterns, 469-78

Epistemology
epistemological grounds for cybernetic models, 372-77

EQUEL Interface Language
Digress: a deductive interface to a relational database, 49-63

Experimental Mass Information Utility
information technologies and social equity: confronting the revolution, 216-28

Expert Systems. *See also* Artificial Intelligence
a database model for medical consultation, 554-57
Digress: a deductive interface to a relational database, 49-63
searchers' selection of search keys: I. the selection routine, 490-500

Failure Time Analysis
failure time analysis of office system use, 644-56

Feedback in Information Retrieval Systems
control and feedback in a documentary information retrieval system, 623-34
evaluation of an adaptive linear model, 723-30

Files, Computer. *See* Computer Files

Fine Arts
imaging: fine arts, 589-96

First-Order Logic
Digress: a deductive interface to a relational database, 49-63

Formulation of Queries. *See* Query Formulation

Frame Structure Representation
knowledge representation of the visual image of a title page, 99-109

Free-Text Searching
effectiveness and efficiency in natural language processing for large amounts of text, 450-56
the Medline/full-text research project, 297-307
searchers' selection of search keys: I. the selection routine, 490-500
searchers' selection of search keys: II. controlled vocabulary or free-text searching, 501-14
searchers' selection of search keys: III. searching styles, 515-27

Function Classification
indexing for invention, 173-77

Furth, S. E.
in memoriam: Stephen E. Furth, 1909-1991, 702

Fuzzy Relational Model
a database model for medical consultation, 554-57

GAMS Classification
extended subject access to hypertext online documentation. parts I and II: the search-support and maintenance problems, 414-26

Genetic Algorithm
user-based document clustering by redescribing subject descriptions with a genetic algorithm, 311-22

Gini Index
rational normalization of concentration measures, 715-22

Graphic Representor of Interaction Patterns (GRIP). *See* GRIP

Graphical Representation
graphic display of larger sentence dependency structures, 323-31
graphical representations of electronic search patterns, 469-78

Gratification Theory
life in a small world: applicability of gratification theory to information-seeking behavior, 438-49

GRIP
graphical representations of electronic search patterns, 469-78

Group for Standardization of Information Services (g.s.i.s.)
historical note: out of the cloudy crystal ball, 747-53

Guide to Available Mathematical Software. *See* GAMS Classification

Help, Online. *See* Online Help

Historians
conceptual organization and retrieval of text by historians: the role of memory and metaphor, 657-68

History of Information Science
historical note: out of the cloudy crystal ball, 747-53

Huffman Codes
data compression using word encoding with Huffman code, 685-98

Human-Computer Interface. *See also* Computer Users
computer human interaction for image information systems, 600-608
conceptual organization and retrieval of text by historians: the role of memory and metaphor, 657-68
graphical representations of electronic search patterns, 469-78
modeling the intermittent user of word processing technology, 185-96
system design and cataloging meet the user, 78-98
user skill acquisition in office information systems, 735-46

Humanities
quality judgments of journals as indicators of research performance in the humanities and the social and behavioral sciences, 332-40

Humphrey Institute
information requirements assessments of the Humphrey Institute, 139-42
the setting for the project, 137-38

Hypertext
economic constraints in hypertext, 178-84
extended subject access to hypertext online documentation. parts I and II: the search-support and maintenance problems, 414-26
extended subject access to hypertext online documentation. part III: the document-boundaries problem, 427-37

IBM PROFS Professional Office System
failure time analysis of office system use, 644-56
user skill acquisition in office information systems, 735-46

IIC. *See* Integrated Information Centers

IMAGEQUERY System
the technologies of electronic imaging, 578-85

Images and Imaging
computer human interaction for image information systems, 600-608
imaging: fine arts, 589-96
information retrieval of more than text, 586-88
the technologies of electronic imaging, 578-85
a user's applications of imaging techniques: the University of Maryland Historic Textile Database, 597-99
virtual reality: advanced imaging special effects let you roam in cyberspace, 609-17

Index Terms
the decline of subject searching: long-term trends and patterns of index use in an online catalog, 197-215
extended subject access to hypertext online documentation. parts I and II: the search-support and maintenance problems, 414-26
extended subject access to hypertext online documentation. part III: the document-boundaries problem, 427-37
the limitations of term co-occurrence data for query expansion in document retrieval systems, 378-83
mapping of science by combined co-citation and word analysis. II. dynamical aspects, 252-66
the Medline/full-text research project, 297-307
searchers' selection of search keys: I. the selection routine, 490-500
searchers' selection of search keys: II. controlled vocabulary or free-text searching, 501-14
searchers' selection of search keys: III. searching styles, 515-27
system design and cataloging meet the user, 78-98

Indexes and Indexing. ***See also*** **Citation Indexing**
back of book indexes and the characteristics of author and nonauthor indexing: report of an exploratory study, 341-50
economic constraints in hypertext, 178-84
indexing consistency in *Information Science Abstracts*, 1-6
indexing for invention, 173-77
letter to the editor, 759
subject and citation indexing. part I: the clustering structure of composite representations in the cystic fibrosis document collection, 669-75
subject and citation indexing. part II: the optimal cluster-based retrieval performance of composite representation, 676-84

Indexing Language
a phrase-based matching function, 36-48

Inequalities
transfer principles and a classification of concentration measures, 479-89

Information
information as thing, 351-60
information as thing (Letter to Editor), 758
rejoinder [to letter to editor], 758

Information Access
information technologies and social equity: confronting the revolution, 216-28

Information Retrieval. ***See also*** **Searching**
algorithm for automatic construction of query formulations in Boolean form, 16-26
the binary nature of continuous relevance judgments: a study of users' perceptions (Brief Communications), 754-56
computer human interaction for image information systems, 600-608
conceptual organization and retrieval of text by historians: the role of memory and metaphor, 657-68
control and feedback in a documentary information retrieval system, 623-34
the decline of subject searching: long-term trends and patterns of index use in an online catalog, 197-215
expertise, task complexity, and artificial intelligence. a conceptual framework, 635-43
historical note: out of the cloudy crystal ball, 747-53
how effective is suffixing?, 7-15
indexing for invention, 173-77
information retrieval of more than text, 586-88
an investigation of the optimization of search logic for the MEDLINE database, 267-78
ISI research fronts and online subject access, 386-88
knowledge-based information retrieval (European Research Letter), 72-74
the limitations of term co-occurrence data for query expansion in document retrieval systems, 378-83
the Medline/full-text research project, 297-307
a phrase-based matching function, 36-48
the role of artificial intelligence in information retrieval, 558-65
a study of probabilistic information retrieval systems in the case of inconsistent expert judgments, 166-72
subject and citation indexing. part II: the optimal cluster-based retrieval performance of composite representation, 676-84
the technologies of electronic imaging, 578-85
text retrieval and the relational model, 155-65
user-based document clustering by redescribing subject descriptions with a genetic algorithm, 311-22
a utility theoretic examination of the probability ranking principle in information retrieval, 703-14

Information Science
an alert to the information and library science community: arise, *mes enfants*! *Aux armes, citoyens*! (Editorial), 545
frequency and functional use of cited documents in information science, 397-404
historical note: out of the cloudy crystal ball, 747-53
the library community at a technological and philosophical crossroads: necessary and sufficient conditions for survival, 566-73
quantitative and qualitative assessments of the impact of linguistic theory on information science, 64-71

Information Science Abstracts
indexing consistency in *Information Science Abstracts*, 1-6
letter to the editor, 759

Information-Seeking Behavior
inside the search process: information seeking from the user's perspective, 361-71
life in a small world: applicability of gratification theory to information-seeking behavior, 438-49

Information Systems
the changing information environment, 120-23
expertise, task complexity, and artificial intelligence: a conceptual framework, 635-43

Information Theory
application of information theory to query negotiation: toward an optimal questioning strategy, 457-62

Informetrics
transfer principles and a classification of concentration measures, 479-89

INGRES
Digress: a deductive interface to a relational database, 49-63

Institute for Scientific Information (ISI). ***See*** **ISI**

Institutes For Information Democracy
information technologies and social equity: confronting the revolution, 216-28

Integrated Information Centers
the changing information environment, 120-23
department level information resource management: a theoretical argument for a decentralized approach, 124-27
information requirements assessments of the Humphrey Institute, 139-42
the integrated information center concept, 128-31
introduction and overview, 117-19
issues relating to the implementation and management of an integrated information center, 147-51
legal issues for an integrated information center, 132-36
a model academic integrated information center, 143-46
part I: the delivery of information services within a changing information environment, 120-31
part II: a model academic integrated information center, 137-51
the setting for the project, 137-38

Intellectual Property
legal issues for an integrated information center, 132-36

Interface, Human-Computer. ***See*** **Human-Computer Interface**

Invention
indexing for invention, 173-77

Inverted File Structure
text retrieval and the relational model, 155-65

ISA. ***See Information Science Abstracts***

ISI
ISI research fronts and online subject access, 386-88
quality judgments of journals as indicators of research performance in the humanities and the social and behavioral sciences, 332-40

Jaccard Coefficient
a phrase-based matching function, 36-48

Journal Analysis. ***See also*** **Citation Analysis**
erratum, 115
a further exploration of title size and author number (Brief Communication), 384-85
increasing field complexity revealed through article title analyses, 731-34

Journal of the American Society for Information Science (JASIS)
a clarification of the policy on printing letters to the editor (Editorial), 77
frequency and functional use of cited documents in information science, 397-404
happy days are here again (Editorial), 701

Knowledge Representation
Digress: a deductive interface to a relational database, 49-63

Knowledge Representation *(Cont'd)*
knowledge-based information retrieval (European research letter), 72–74
knowledge representation of the visual image of a title page, 99–109

Legal Issues in Information Science
legal issues for an integrated information center, 132–36

Library and Information Science. *See also* Information Science
an alert to the information and library science community: arise, *mes enfants! Aux armes, citoyens!* (Editorial), 545
the library community at a technological and philosophical crossroads: necessary and sufficient conditions for survival, 566–73

Library Automation
historical note: out of the cloudy crystal ball, 747–53

Library circulation
a bivariate model to predict library circulation, 546–53

Library of Congress
historical note: out of the cloudy crystal ball, 747–53

Library of Congress Subject Headings
the decline of subject searching: long-term trends and patterns of index use in an online catalog, 197–215

Linguistics
effectiveness and efficiency in natural language processing for large amounts of text, 450–56
graphic display of larger sentence dependency structures, 323–31
quantitative and qualitative assessments of the impact of linguistic theory on information science, 64–71

Loglinear/MDS Modeling
a combined loglinear/MDS model for mapping journals by citation analysis, 405–13

Lower Class Workers
life in a small world: applicability of gratification theory to information-seeking behavior, 438–49

Mapping Journal Literature. *See* Citation Analysis

Marketing Literature
a combined loglinear/MDS model for mapping journals by citation analysis, 405–13

Maximum Entropy Principle
a study of probabilistic information retrieval systems in the case of inconsistent expert judgments, 166–72

Medical Expert System
a database model for medical consultation, 554–57

Medical Images
computer human interaction for image information systems, 600–608

Medical Literature
medical English abstracts: how well are they structured? (Brief Communication), 528–31
subject and citation indexing. part I: the clustering structure of composite representations in the cystic fibrosis document collection, 669–75
subject and citation indexing. part II: the optimal cluster-based retrieval performance of composite representation, 676–84

MEDIS
the Medline/full-text research project, 297–307

MEDLINE
an investigation of the optimization of search logic for the MEDLINE database, 267–78
the Medline/full-text research project, 297–307

MELVYL Online Catalog
the decline of subject searching: long-term trends and patterns of index use in an online catalog, 197–215
nonmaterialized relations and the support of information retrieval applications by relational database systems, 389–96

Memory
conceptual organization and retrieval of text by historians: the role of memory and metaphor, 657–68

MEP. *See* Maximum Entropy Principle

Metaphor
conceptual organization and retrieval of text by historians: the role of memory and metaphor, 657–68

Multidimensional Scaling. *See* Loglinear/MDS Modeling

Music
[error in] laws of scattering applied to popular music, 113–14

National Advisory Committee for Aeronautics (NACA)
historical note: out of the cloudy crystal ball, 747–53

National Energy Research Supercomputer Center (NERSC). *See* NERSC

Natural Language Processing
effectiveness and efficiency in natural language processing for large amounts of text, 450–56

NERSC
extended subject access to hypertext online documentation. parts I and II: the search-support and maintenance problems, 414–26

NLP. *See* Natural Language Processing

Nonmaterialized Relations
nonmaterialized relations and the support of information retrieval applications by relational database systems, 389–96

Normalization
rational normalization of concentration measures, 715–22

Office Automation Systems
failure time analysis of office system use, 644–56
user skill acquisition in office information systems, 735–46

Online Documentation
extended subject access to hypertext online documentation. parts I and II: the search-support and maintenance problems, 414–26
extended subject access to hypertext online documentation. part III: the document-boundaries problem, 427–37

Online Help
modeling the intermittent user of word processing technology, 185–96

Online Public Access Catalogs
the decline of subject searching: long-term trends and patterns of index use in an online catalog, 197–215
system design and cataloging meet the user, 78–98

Online Searching. *See* Information Retrieval; Searching

OPAC. *See* Online Public Access Catalogs

Otlet, P.
information retrieval of more than text, 586–88

Personal Construct Theory
inside the search process: information seeking from the user's perspective, 361–71

Physical Location of Information
conceptual organization and retrieval of text by historians: the role of memory and metaphor, 657–68

PicturePower Software
a user's applications of imaging techniques: the University of Maryland Historic Textile Database, 597–99

Pratt's Measure
rational normalization of concentration measures, 715–22

Precision
an investigation of the optimization of search logic for the MEDLINE database, 267–78
the Medline/full-text research project, 297–307

Probabilistic Retrieval Systems
a study of probabilistic information retrieval systems in the case of inconsistent expert judgments, 166–72
a utility theoretic examination of the probability ranking principle in information retrieval, 703–14

Probability Models
a probabilistic model for the distribution of authorships, 279–89
PROFS Professional Office System
failure time analysis of office system use, 644–56
user skill acquisition in office information systems, 735–46
Public Access Catalogs. ***See*** **Online Public Access Catalogs**

Query Formulation
algorithm for automatic construction of query formulations in Boolean form, 16–26
application of information theory to query negotiation: toward an optimal questioning strategy, 457–62
control and feedback in a documentary information retrieval system, 623–34
evaluation of an adaptive linear model, 723–30
an investigation of the optimization of search logic for the MEDLINE database, 267–78
the limitations of term co-occurrence data for query expansion in document retrieval systems, 378–83
nonmaterialized relations and the support of information retrieval applications by relational database systems, 389–96

Random Sampling
sampling by length (Brief Communication), 229–32
Ranking Techniques
how effective is suffixing?, 7–15
a study of probabilistic information retrieval systems in the case of inconsistent expert judgments, 166–72
a utility theoretic examination of the probability ranking principle in information retrieval, 703–14
Rational Normalization. ***See*** **Normalization**
Recall
an investigation of the optimization of search logic for the MEDLINE database, 267–78
searchers' selection of search keys: III. searching styles, 515–27
Reference Interview
application of information theory to query negotiation: toward an optimal questioning strategy, 457–62
Relational Databases
Digress: a deductive interface to a relational database, 49–63
nonmaterialized relations and the support of information retrieval applications by relational database systems, 389–96
text retrieval and the relational model, 155–65
Relevance
the binary nature of continuous relevance judgments: a study of users' perceptions (Brief Communications), 754–56
evaluation of an adaptive linear model, 723–30
the Medline/full-text research project, 297–307
a study of probabilistic information retrieval systems in the case of inconsistent expert judgments, 166–72
Research Fronts
ISI research fronts and online subject access, 386–88
mapping of science by combined co-citation and word analysis. I. structural aspects, 233–51
Researchers
deriving disciplinary structures: some new methods, models, and an illustration with accounting, 27–35
mapping of science by combined co-citation and word analysis. I. structural aspects, 233–51
mapping of science by combined co-citation and word analysis. II. dynamical aspects, 252–66
quality judgments of journals as indicators of research performance in the humanities and the social and behavioral sciences, 332–40
Retrieval. ***See*** **Information Retrieval**
RFs. ***See*** **Research Fronts**

Sampling Methods
sampling by length (Brief Communication), 229–32
Scattering
[error in] laws of scattering applied to popular music, 113–14
Scientific Literature
mapping of science by combined co-citation and word analysis. I. structural aspects, 233–51
mapping of science by combined co-citation and word analysis. II. dynamical aspects, 252–66
Search Keys. ***See*** **Index Terms**
Searching. ***See also*** **Information Retrieval**
algorithm for automatic construction of query formulations in Boolean form, 16–26
the decline of subject searching: long-term trends and patterns of index use in an online catalog, 197–215
evaluation of an adaptive linear model, 723–30
extended subject access to hypertext online documentation. part III: the document-boundaries problem, 427–37
graphical representations of electronic search patterns, 469–78
inside the search process: information seeking from the user's perspective, 361–71
the limitations of term co-occurrence data for query expansion in document retrieval systems, 378–83
nonmaterialized relations and the support of information retrieval applications by relational database systems, 389–96
a phrase-based matching function, 36–48
searchers' selection of search keys: I. the selection routine, 490–500
searchers' selection of search keys: II. controlled vocabulary or free-text searching, 501–14
searchers' selection of search keys: III. searching styles, 515–27
Sentence Dependency Structures
graphic display of larger sentence dependency structures, 323–31
Shera, J. H.
information retrieval of more than text, 586–88
Signal Detection Theory
a utility theoretic examination of the probability ranking principle in information retrieval, 703–14
Social Equity
information technologies and social equity: confronting the revolution, 216–28
life in a small world: applicability of gratification theory to information-seeking behavior, 438–49
Social Science Citation Index
a combined loglinear/MDS model for mapping journals by citation analysis, 405–13
quality judgments of journals as indicators of research performance in the humanities and the social and behavioral sciences, 332–40
Specialty Structures. ***See*** **Disciplinary Structures**
SQL
nonmaterialized relations and the support of information retrieval applications by relational database systems, 389–96
text retrieval and the relational model, 155–65
STAIRS
text retrieval and the relational model, 155–65
State Spaces
graphical representations of electronic search patterns, 469–78
Statistical Analysis
a bivariate model to predict library circulation, 546–53
rational normalization of concentration measures, 715–22
Stemming Algorithms
how effective is suffixing?, 7–15
Structured Query Language. ***See*** **SQL**
Subject Headings. ***See*** **Index Terms**
Subject Indexing. ***See*** **Indexes and Indexing**
Suffixing Algorithms
how effective is suffixing?, 7–15
Syntactic Analysis
effectiveness and efficiency in natural language processing for large amounts of text, 450–56
a phrase-based matching function, 36–48

Task Complexity
expertise, task complexity, and artificial intelligence: a conceptual framework, 635–43
Technology
information technologies and social equity: confronting the revolution, 216–28
Term Co-Occurrence
the limitations of term co-occurrence data for query expansion in document retrieval systems, 378–83
TEXNET Software
graphic display of larger sentence dependency structures, 323–31
Text-Inhalts-Analyse System. ***See*** **TINA**
Text Searching. ***See*** **Free-Text Searching**
Text Storage and Retrieval Systems
effectiveness and efficiency in natural language processing for large amounts of text, 450–56
text retrieval and the relational model, 155–65
Textword Searching. ***See*** **Free-Text Searching**
Theil's Measure
rational normalization of concentration measures, 715–22
Thesauri. ***See also*** **Index Terms**
searchers' selection of search keys: I. the selection routine, 490–500
searchers' selection of search keys: II. controlled vocabulary or free-text searching, 501–14
searchers' selection of search keys: III. searching styles, 515–27
TINA
effectiveness and efficiency in natural language processing for large amounts of text, 450–56
Title Page
knowledge representation of the visual image of a title page, 99–109
Titles
a further exploration of title size and author number (Brief Communication), 384–85
increasing field complexity revealed through article title analyses, 731–34
Transaction Monitoring
the decline of subject searching: long-term trends and patterns of index use in an online catalog, 197–215
Transfer Principles
transfer principles and a classification of concentration measures, 479–89

University of Maryland's Historic Textile Database
a user's applications of imaging techniques: the University of Maryland Historic Textile Database, 597–99
U.S. National Advisory Committee for Aeronautics. ***See*** **National Advisory Committee for Aeronautics**
User Searchers. ***See*** **End-User Searchers**
User Studies
the binary nature of continuous relevance judgments: a study of users' perceptions (Brief Communications), 754–56
failure time analysis of office system use, 644–56
graphical representations of electronic search patterns, 469–78
inside the search process: information seeking from the user's perspective, 361–71
system design and cataloging meet the user, 78–98
user skill acquisition in office information systems, 735–46
Users of Computers. ***See*** **Computer Users**
Utility Theory
a utility theoretic examination of the probability ranking principle in information retrieval, 703–14

Virtual Reality
virtual reality: advanced imaging special effects let you roam in cyberspace, 609–17
whither cyberspace?, 618–20
Visual Representation
knowledge representation of the visual image of a title page, 99–109

Word Analysis
deriving disciplinary structures: some new methods, models, and an illustration with accounting, 27–35
mapping of science by combined co-citation and word analysis. I. structural aspects, 233–51
mapping of science by combined co-citation and word analysis. II. dynamical aspects, 252–66
Word Processing
modeling the intermittent user of word processing technology, 185–96

JASIS
JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE

Author Index to Volume 42

Adams, C.
issues relating to the implementation and management of an integrated information center, 147–51
a model academic integrated information center, 143–46

Ajiferuke, I.
a probabilistic model for the distribution of authorships, 279–89

Anderson, C. S.
a user's applications of imaging techniques: the University of Maryland Historic Textile Database, 597–99

Andrews, M. J.
indexing consistency in *Information Science Abstracts*, 1–6

Anvari, M.
a database model for medical consultation, 554–57

Barr, A.
a bivariate model to predict library circulation, 546–53

Beard, D. V.
computer human interaction for image information systems, 600–608

Beath, C. M.
department level information resource management: a theoretical argument for a decentralized approach, 124–27
the integrated information center concept, 128–31
issues relating to the implementation and management of an integrated information center, 147–51
a model academic integrated information center, 143–46

Besser, H.
imaging: fine arts, 589–96

Bilal, D.
application of information theory to query negotiation: toward an optimal questioning strategy, 457–62

Bolan, R.
issues relating to the implementation and management of an integrated information center, 147–51
legal issues for an integrated information system, 132–36
a model academic integrated information center, 143–46

Bonckaert, P.
rational normalization of concentration measures, 715–22

Boyce, B. R.
book review, 757

Braam, R. R.
mapping of science by combined cocitation and word analysis. I. structural aspects, 233–51
mapping of science by combined cocitation and word analysis. II. dynamical aspects, 252–66

Branin, J.
issues relating to the implementation and management of an integrated information center, 147–51
a model academic integrated information center, 143–46
part II: a model academic integrated information center, 137–51

Breton, E. J.
indexing for invention, 173–77

Bricker, R.
deriving disciplinary structures: some new methods, models, and an illustration with accounting, 27–35

Buckland, M. K.
book review, 463
expertise, task complexity, and artificial intelligence: a conceptual framework, 635–43
information as thing, 351–60
information retrieval of more than text, 586–88
rejoinder [to letter to the editor], 758

Buckley, C.
evaluation of an adaptive linear model, 723–30

Budd, J.
book review, 112

Case, D. O.
conceptual organization and retrieval of text by historians: the role of memory and metaphor, 657–68

Chatman, E. A.
life in a small world: applicability of gratification theory to information-seeking behavior, 438–49

Cogswell, J.
information requirements assessments of the Humphrey Institute, 139–42

Collins, R.
part I: the delivery of information services within a changing information environment, 120–31

Cook, K. L.
[error in] laws of scattering applied to popular music, 113–14

Cooper, M. D.
failure time analysis of office system use, 644–56
user skill acquisition in office information systems, 735–46

Craven, T. C.
graphic display of larger sentence dependency structures, 323–31

DeHart, F. E.
ISI research fronts and online subject access, 386–88

D'Elia, G.
information requirements assessments of the Humphrey Institute, 139–42
issues relating to the implementation and management of an integrated information center, 147–51
a model academic integrated information center, 143–46
perspectives on integrated information centers within academic environments, 116

Diodato, V.
back of book indexes and the characteristics of author and nonauthor indexing: report of an exploratory study, 341–50

Doctor, R. D.
information technologies and social equity: confronting the revolution, 216–28

Eastman, C. M.
formatted and unformatted character data types (Brief Communication), 110–11

Egghe, L.
rational normalization of concentration measures, 715–22
transfer principles and a classification of concentration measures, 479–89

Everett, J. E.
a combined loglinear/MDS model for mapping journals by citation analysis, 405–13

Fidel, R.
searchers' selection of search keys: I. the selection routine, 490–500
searchers' selection of search keys: II. controlled vocabulary or free-text searching, 501–14
searchers' selection of search keys: III. searching styles, 515–27

Finn, C.
part II: a model academic integrated information center, 137–51
Florian, D.
expertise, task complexity, and artificial intelligence: a conceptual framework, 635–43
Ford, N.
knowledge-based information retrieval (European research letter), 72–74
Frants, V. I.
algorithm for automatic construction of query formulations in Boolean form, 16–26
control and feedback in a documentary information retrieval system, 623–34

Galbiati, G.
a phrase-based matching function, 36–48
Gandt, G.
back of book indexes and the characteristics of author and nonauthor indexing: report of an exploratory study, 341–50
Garfield, E.
letter to the editor, 464
Girill, T. R.
extended subject access to hypertext online documentation. parts I and II: the search-support and maintenance problems, 414–26
extended subject access to hypertext online documentation. part III: the document-boundaries problem, 427–37
Gordon, M. D.
user-based document clustering by redescribing subject descriptions with a genetic algorithm, 311–22
a utility theoretic examination of the probability ranking principle in information retrieval, 703–14
Gorman, K.
information requirements assessments of the Humphrey Institute, 139–42
Griffin, T.
extended subject access to hypertext online documentation. parts I and II: the search-support and maintenance problems, 414–26

Handley, J. C.
sampling by length (Brief Communication), 229–32
Harman, D.
how effective is suffixing?, 7–15
Hellprin, L. B.
the library community at a technological and philosophical crossroads: necessary and sufficient conditions for survival, 566–73
Heine, M. H.
an investigation of the optimization of search logic for the MEDLINE database, 267–78
Hernandez, N. R.
increasing field complexity revealed through article title analyses, 731–34
Hooten, P. A.
frequency and functional use of cited documents in information science, 397–404

Jackson, E. B.
historical note: out of the cloudy crystal ball, 747–53
in memoriam: Stephen E. Furth, 1909–1991, 702
Janes, J. W.
the binary nature of continuous relevance judgments: a study of users' perceptions (Brief Communications), 754–56
Jeng, L. H.
knowledge representation of the visual image of a title page, 99–109
Johnson, E. D.
the Medline/full-text research project, 297–307
Jones, R. B.
extended subject access to hypertext online documentation. parts I and II: the search-support and maintenance problems, 414–26

Kantor, P. B.
a study of probabilistic information retrieval systems in the case of inconsistent expert judgments, 166–72
Khawam, Y. J.
epistemological grounds for cybernetic models, 372–77
Kraft, D. H.
an alert to the information and library science community: arise, *mes enfants*! *Aux armes, citoyens*! (Editorial), 545
a clarification of the policy on printing letters to the editor (Editorial), 77
happy days are here again (Editorial), 701
in memoriam: Stephen E. Furth, 1909–1991 (Editorial Note), 702
Kuhlthau, C. C.
inside the search process: information seeking from the user's perspective, 361–71

Larson, R. R.
the decline of subject searching: long-term trends and patterns of index use in an online catalog, 197–215
Lee, J. L.
a study of probabilistic information retrieval systems in the case of inconsistent expert judgments, 166–72
Lenk, P.
a utility theoretic examination of the probability ranking principle in information retrieval, 703–14
Liebscher, P.
graphical representations of electronic search patterns, 469–78
Lin, Xia
graphical representations of electronic search patterns, 469–78
Liu, Chengwen
data compression using word encoding with Huffman code, 685–98
Loughner, W.
letter to editor, 113
Lunin, L. F.
perspectives on imaging: advanced applications, 575–77
perspectives on integrated information centers within academic environments, 116
Lynch, C. A.
nonmaterialized relations and the support of information retrieval applications by relational database systems, 389–96
perspectives on imaging: advanced applications, 575–77
the technologies of electronic imaging, 578–85

Macleod, I.A.
text retrieval and the relational model, 155–65
Marchionini, G.
graphical representations of electronic search patterns, 469–78
McCain, K. W.
mapping economics through the journal literature: an experiment in journal cocitation analysis, 290–96
McKinin, E. J.
the Medline/full-text research project, 297–307
McLean, S.
Digress: a deductive interface to a relational database, 49–63
Meghabghab, G.
application of information theory to query negotiation: toward an optimal questioning strategy, 457–62
Mitchell, J. A.
the Medline/full-text research project, 297–307
Moed, H. F.
mapping of science by combined cocitation and word analysis. I. structural aspects, 233–51
mapping of science by combined cocitation and word analysis. II. dynamical aspects, 252–66

Nederhof, A. J.
quality judgments of journals as indicators of research performance in the humanities and the social and behavioral sciences, 332–40
Nugent, W. R.
virtual reality: advanced imaging special effects let you roam in cyberspace, 609–17

Olden, A.
book review, 538-39

Peat, H. J.
the limitations of term co-occurrence data for query expansion in document retrieval systems, 378-83

Pecotich, A.
a combined loglinear/MDS model for mapping journals by citation analysis, 405-13

Raan, A. F. J. van
mapping of science by combined co-citation and word analysis. I. structural aspects, 233-51
mapping of science by combined co-citation and word analysis. II. dynamical aspects, 252-66

Rees, W.
legal issues for an integrated information system, 132-36

Robinson, M. D.
applied bibliometrics: using citation analysis in the journal submission process (Brief Communication), 308-10

Rohde, N. F.
information requirements assessments of the Humphrey Institute, 139-42
issues relating to the implementation and management of an integrated information center, 147-51
legal issues for an integrated information system, 132-36
a model academic integrated information center, 143-46

Romkey, J.
whither cyberspace?, 618-20

Rousseau, R.
transfer principles and a classification of concentration measures, 479-89

Ruge, G.
effectiveness and efficiency in natural language processing for large amounts of text, 450-56

Salager-Meyer, F.
medical English abstracts: how well are they structured? (Brief Communication), 528-31

Salton, G.
evaluation of an adaptive linear model, 723-30

Santhanam, R.
modeling the intermittent user of word processing technology, 185-96

Schultz, C. K.
in memoriam: Lea M. Bohnert 1919-1990, 467-68

Schwartz, C.
letter to the editor, 759

Schwarz, C.
effectiveness and efficiency in natural language processing for large amounts of text, 450-56

Scott, L.
ISI research fronts and online subject access, 386-88

Shapiro, J.
algorithm for automatic construction of query formulations in Boolean form, 16-26
control and feedback in a documentary information retrieval system, 623-34

Shaw, W. M., Jr.
subject and citation indexing. part I: the clustering structure of composite representations in the cystic fibrosis document collection, 669-75
subject and citation indexing. part II: the optimal cluster-based retrieval performance of composite representation, 676-84

Shearer, K. D.
book review, 537-38

Sichel, H. S.
a bivariate model to predict library circulation, 546-53

Sievert, M. C.
erratum, 115
indexing consistency in *Information Science Abstracts*, 1-6
the Medline/full-text research project, 297-307

Sparck Jones, K.
the role of artificial intelligence in information retrieval, 558-65

Stein, G.
letter to editor, 574

Straub, D.
department level information resource management: a theoretical argument for a decentralized approach, 124-27
the integrated information center concept, 128-31
issues relating to the implementation and management of an integrated information center, 147-51
a model academic integrated information center, 143-46
part 1: the delivery of information services within a changing information environment, 120-23

Tague, J. M.
an investigation of the optimization of search logic for the MEDLINE database, 267-78

Warner, A. J.
effectiveness and efficiency in natural language processing for large amounts of text, 450-56
quantitative and qualitative assessments of the impact of linguistic theory on information science, 64-71

Weinberg, B. H.
book review, 532-37

Welse, C.
Digress: a deductive interface to a relational database, 49-63

Westland, J. C.
economic constraints in hypertext, 178-84

White, A.
a further exploration of title size and author number (Brief Communication), 384-85
increasing field complexity revealed through article title analyses, 731-34

Wiedenbeck, S.
modeling the intermittent user of word processing technology, 185-96

Willett, P.
the limitations of term co-occurrence data for query expansion in document retrieval systems, 378-83

Wong, S. K. M.
evaluation of an adaptive linear model, 723-30

Yao, Y. Y.
evaluation of an adaptive linear model, 723-30

Yee, M. M.
system design and cataloging meet the user: user interfaces to online public access catalogs, 78-98

Yerkey, A. N.
letter to the editor, 758

Yu, Clement
data compression using word encoding with Huffman code, 685-98

Zwaan, R. A.
quality judgments of journals as indicators of research performance in the humanities and the social and behavioral sciences, 332-40